

# Turbulence group

Turbulence is crucial for answering most of the key questions to be addressed such as how the energy, pulse and the

Turbulence is inherently multi-scale phenomenon and it can not be studied otherwise than in multi-scales: it has dynamic nonlinear structures

From turbulence and nonlinear structures to global energy, pulse and particle transfer

Magnetosheath

Foreshock for quasi-parallel

Turbulence around and in boundary layers

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- Study of intermittency and coherent structures
- Dynamics of turbulence in response to variations of boundary conditions
- Dissipation and kinetic energy transfer from turbulence to plasma particles
- Energetic particle generation by turbulence and the role of energetic particles in generation of turbulence

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- Where should we go
- Where we can find more turbulent phenomena and the objects, shocks and reconnection :
- Near subsolar point
- There are arguments concerning other possible regions but the choice should be made on the basis of frequency of meeting with interesting from the point of view of scientific objectives of the mission

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- How many satellites to answer our questions
- What kind of configuration is most adapted for that
- 10 is minimum 12
- Mother-daughter or equivalent ?
- We are favorable to have the same platform
- We are in favor to have the same instrumentation (major) on all satellites

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- Should we have the same sampling rate and strategy of measurements for all satellites, do we need the same time resolution on all satellites
- Is it possible to have the flexibility ?
- Should we continue to work on these questions involving other people ?